

CLAIMS

1. Receptacle connector (1) for a mobile telephone or
th like, comprising a housing (3) of insulating material, a
shielding (4), and a plurality of contact terminals (5), the
housing having a mainly rectangular block section with flat up-
5 per and lower sides (7,8) and front, back and lateral sides
(9,10,11), wherein channels (13) extend parallel to the lateral
sides (11) between said front and back sides (9,10), the con-
tact terminals being made as strip like elements mounted in
said channels, characterized in that at least some of the con-
10 tact terminals each are provided with two retention parts
(14,15) having a width greater than the width of the channels
(13) providing a retention force mainly parallel to said upper
and lower sides (7,8), wherein the width of the channels at
their upper wall (19) near the upper side (7) of the housing
15 (3) is smaller than the width at their lower wall (20) near the
lower side (8) of the housing (3) to force the contact termi-
nals (5) against the lower wall (20), and wherein the contact
terminals (5) each are provided with a butt-mount contact end
(16) and a tail end (17), wherein the retention part (14) at
20 the tail end (17) has a width greater than the width at the
butt-mount contact end (16).

2. Receptacle connector according to claim 1, wherein
the shielding (4) is made as a casing having upper and lower
plates (22,23) interconnected by side plates (24), said upper
25 and lower plates contacting the upper and lower sides (7,8) of
the housing (3), wherein the housing is provided with a posi-
tioning slot (26) in the lower side (8) and the lower plate
(23) of the shielding is provided with positioning lips (25)
engaging into the positioning slot (26).

30 3. Receptacle connector according to claim 2, wherein
the positioning lips (25) and the co-operating side walls of
the positioning slot (26) are formed in such a manner that the
lower plate (23) can not be forced away from the lower side
(8), wherein the positioning slot (26) is open at the back side
35 (10) and is provided with a stop (27) at the front side end,
wherein the housing is further provided with at least one re-

ceiving chamber (29) in its lower side having a wall (30) extending oblique with respect to the back side, wherein the shielding (4) is provided with a bending lip (31) engaging said oblique wall to press the positioning lips against the stop
5 (27).

4. Receptacle connector according to claim 2 or 3, wherein the side plates (24) of the shielding (4) each are provided with a stop plate (32) co-operating with a stop face (33) of a lug (12) provided on each of the lateral sides of the
10 housing (3).

5. Plug connector (34) for interconnecting a mobile device to a stationary device, comprising a housing (36) of insulating material, a shielding (44), a plurality of contact terminals (39) mounted in the housing, at least one latch element (55) to latch the plug connector in a receptacle connector
15 (1) of the mobile device, and a button (60) to operate the latch element, wherein the housing is provided with at least one locating peg (51) to be received in a chamber (51') of the receptacle connector, characterized in that the housing (36)
20 comprises inner and outer sections (37,38), the inner section being made as a contact block accommodating the contact terminals (39), the outer section being made as interconnected top and bottom covers (49,50), wherein the outer section includes the locating peg(s) and the button.

25 6. Plug connector according to claim 5, wherein the or each locating peg (51) is provided with a first slot (53) accommodating a reinforcing blade (52).

7. Plug connector according to claim 6, wherein the or each locating peg (51) is provided with a second slot (54) accommodating a latch blade (55) carrying a latch element (55)
30 and an upwardly projecting extension (59) coupling the latch blade to the button (60).

8. Plug connector according to claim 7, wherein the bottom cover (50) is provided with a locating peg (51) at opposite sides and the top cover (49) is provided with an upper
35 wall, the button (60) being an integral part of said upper wall, wherein the button is separated from the upper wall along its circumference by a slot (61) and is interconnected to the

upper wall at opposite sides by a hinge section (62), wherein the button part between the hinge sections is relatively rigid.

9. Plug connector according to claim 8, wherein the contact terminals (39) each are provided with a contact end (40) projecting out of a front side of the inner section, wherein the front side of the inner section is provided with a projecting peg (64) for protection of the projecting contact ends.

10. Plug connector according to any one of claims 5-9, wherein the shielding (44) is mounted between the inner (37) and outer (38) sections of the housing and encloses the inner section (37) as a casing.